



YUMA AND VICINITY DUST CONTROL ACTION FORECAST

ISSUED SUNDAY, SEPT. 24, 2006

Three-day weather outlook:

NOTE: During the summer months – mainly during active monsoon episodes – even distant thunderstorms have the potential to cause periods of gusty winds that generate areas of blowing dust.

A weak ridge of high pressure will be strengthening over the next week, leading to mostly sunny skies, light winds, and desert daytime temperatures around 100-102°F through next weekend. The risk of wind-blown dust in Yuma will be “Low” through Wednesday.

	<u>WINDS</u>	<u>WIND BLOWN DUST RISK</u>
Day #1: Mon 09/25/2006	No significant winds are expected.	LOW
Day #2: Tue 09/26/2006	No significant winds are expected.	LOW
Day #3: Wed 09/27/2006	No significant winds are expected.	LOW

PM-10 & PM-2.5 (PARTICLES)

Description – The term “particulate matter” (PM) includes both solid particles and liquid droplets found in air. Many manmade and natural sources emit PM directly or emit other pollutants that react in the atmosphere to form PM. Particles less than 10 micrometers in diameter tend to pose the greatest health concern because they can be inhaled into and accumulate in the respiratory system. Particles less than 2.5 micrometers in diameter are referred to as “fine” particles and are responsible for many visibility degradations (brown cloud). Particles with diameters between 2.5 and 10 micrometers are referred to as “coarse”.

Sources – Fine = All types of combustion (motor vehicles, power plants, wood burning, etc.) and some industrial processes. Coarse = crushing or grinding operations and dust from paved or unpaved roads.

Potential health impacts – PM can increase susceptibility to respiratory infections and can aggravate existing respiratory diseases, such as asthma and chronic bronchitis.

Units of measurement – Micrograms per cubic meter (ug/m3)

Averaging interval – 24 hours (midnight to midnight).

Reduction tips – Stabilize loose soils, minimize travel on dirt roads, utilize tarps on haul trucks, limit use of leaf-blowers, and on high-wind days reduce outdoor activities.

CKR 05/09/2005